

IBSHY Insulated Braided Conductor for Compact Circuit Breakers

Data Solutions

IBSHY is the ideal ready-to-install flexible wire replacement solution that is specifically designed for connections from compact molded case circuit breakers with typical current rating of 125/160 A to copper busbar. The IBSHY connects to the front access terminals of the breakers without any additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. IBSHY is available in cross section of 32 mm² (63.15 kcmil), lengths from 230 to 830 mm (9.1" to 32.7").

Manufactured in an ISO 9001 2015 certified proprietary automated facility, IBSHY is formed by weaving high-quality electrolytic copper wire to form a durable low voltage connector with maximum flexibility that allows for more compact power connections to circuit breakers. The IBSHY allows users to reduce the total size and weight of the installation, improving both design flexibility and assembly aesthetics.

The IBSHY features integral pre-punched palms at one end with a pre-punched crimped tube at the other end both of which are ready to connect out of the box. There are no lugs to purchase or install, making connections simpler and faster and eliminating faulty connections due to vibration or fatigue.

These specific shapes give users the advantage to have the possibility to link a compact circuit breaker, or other apparatus, using connection by cage or bolt to a copper busbar with a larger bolt.

The insulation is a high-resistance, self-extinguishing, and halogen free glass fiber reinforced silicone providing possible high working temperature. IBSHY is compatible with all major brand compact molded case circuit breakers with 125/160 A nominal current. Contact your nVent ERIFLEX representative to determine the correct size for your application.



CERTIFICATIONS



CARACTERÍSTICAS

Suitable for all main 125/160 A electrical devices and specifically molded case circuit breakers

Resistant to vibration, improving reliability and performance

Improves assembly flexibility and aesthetics

Quick and easy installation

No additional cutting, stripping, crimping and punching needed

Small wire diameter provides maximum flexibility

Halogen free solution for applications requiring a low smoke solution

Conforms to NF EN 45545 obtaining an HL3 classification for chapters R22 and R23

DNV GL® certified for marine and offshore applications

High working temperature

RoHS compliant

ESPECIFICAÇÕES

| | |
|---|---|
| Diâmetro do fio: | 0.15mm |
| Peak Short Circuit Current (I_{pk}): | 15kA |
| Typical Application Current Rating: | 160A |
| Max Working Voltage, IEC (U_i): | 1000; 1500 |
| Material: | Copper; Glass Fibre Reinforced Silicone |
| Em conformidade com: | IEC® 60439.1; IEC® 61439.1 |
| Acabamento: | Tinned |
| Flammability Rating: | UL® 1441 VW-1 |
| Temperatura de trabalho: | -60 to 250°C |

Table 1/2

| Número de catálogo | Número do artigo | Corte transversal | Length (L) | A | B | C |
|--------------------|------------------|-------------------|------------|------|------|-----|
| IBSHY32-230 | 558584 | 32mm ² | 230mm | 11mm | 25mm | 3mm |
| IBSHY32-330 | 558586 | 32mm ² | 330mm | 11mm | 25mm | 3mm |
| IBSHY32-365 | 558587 | 32mm ² | 365mm | 11mm | 25mm | 3mm |

| Número de catálogo | Número do artigo | Corte transversal | Length (L) | A | B | C |
|--------------------|------------------|-------------------|------------|------|------|-----|
| IBSHY32-430 | 558588 | 32mm ² | 430mm | 11mm | 25mm | 3mm |
| IBSHY32-500 | 558589 | 32mm ² | 500mm | 11mm | 25mm | 3mm |
| IBSHY32-565 | 558591 | 32mm ² | 565mm | 11mm | 25mm | 3mm |
| IBSHY32-630 | 558592 | 32mm ² | 630mm | 11mm | 25mm | 3mm |
| IBSHY32-700 | 558593 | 32mm ² | 700mm | 11mm | 25mm | 3mm |
| IBSHY32-765 | 558594 | 32mm ² | 765mm | 11mm | 25mm | 3mm |
| IBSHY32-830 | 558595 | 32mm ² | 830mm | 11mm | 25mm | 3mm |

Table 2/2

| Número de catálogo | Número do artigo | D | Tamanho do orifício 1 (HS1) | Tamanho do orifício 2 (HS2) |
|--------------------|------------------|-----|-----------------------------|-----------------------------|
| IBSHY32-230 | 558584 | 5mm | 6.5mm | 10.5mm |
| IBSHY32-330 | 558586 | 5mm | 6.5mm | 10.5mm |
| IBSHY32-365 | 558587 | 5mm | 6.5mm | 10.5mm |
| IBSHY32-430 | 558588 | 5mm | 6.5mm | 10.5mm |
| IBSHY32-500 | 558589 | 5mm | 6.5mm | 10.5mm |
| IBSHY32-565 | 558591 | 5mm | 6.5mm | 10.5mm |
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| IBSHY32-700 | 558593 | 5mm | 6.5mm | 10.5mm |
| IBSHY32-765 | 558594 | 5mm | 6.5mm | 10.5mm |

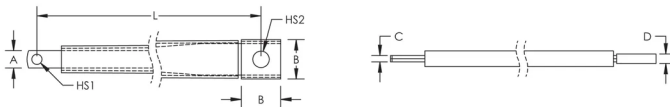
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|--------------------|------------------|-----|-----------------------------|-----------------------------|
| IBSHY32-830 | 558595 | 5mm | 6.5mm | 10.5mm |

DETALHES ADICIONAIS DO PRODUTO

ΔT = Temperature of conductors – Internal temperature of panel.

This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

DIAGRAMAS



AVISO

Os produtos nVent devem ser instalados e utilizados apenas conforme indicado nas fichas de instrução do produto e materiais de treinamento da nVent. As fichas de instrução estão disponíveis em www.nVent.com e com nossos representantes de atendimento ao cliente nVent. A instalação inadequada, uso incorreto, aplicação incorreta ou outra falha qualquer em seguir completamente as instruções e avisos da nVent podem levar ao mau funcionamento do produto, danos à propriedade, lesões corporais graves e morte, e/ou anular sua garantia.



O nosso forte portefólio de marcas:

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